

## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <a href="http://about.jstor.org/participate-jstor/individuals/early-journal-content">http://about.jstor.org/participate-jstor/individuals/early-journal-content</a>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

By permission of the Chairman, Mr. Hennessy explained some results at which he had arrived since the last meeting of the Academy, relative to the influence of latitude on the positions of the isothermal lines at the surface of the earth. ting out from the general laws of radiant heat, he had arrived at a mathematical expression for the quantity of solar heat received at a limited area of the earth's surface, which depends on an elliptic function whose modulus is the sine of the inclination of the equator to the ecliptic. From this he was able to deduce the theorem already announced as to the transportation of the closed isothermal lines of an island towards the pole, by introducing the influence of latitude. It follows also, that the isothermal lines will be crowded more closely together towards the poles. He has found that the parallel of either hemisphere, which receives the greatest amount of heat from direct solar radiation, while the sun is at the same side of the equator, has a latitude of 7° 24'.

Rev. Dr. Graves read a paper on the extension of Taylor's theorem to non-commutative symbols.

The Secretary read extracts of a letter from Mr. James Gilmour, of Coleraine, explaining the exact locality where the ancient gold fibula, called the Dalraida brooch in the Ulster Journal of Archæology, No. 13, was found. He also stated that Dr. Aquilla Smith had ascertained its specific gravity to be 15.45, and not 16.248. By permission of Mr. Gilmour, the brooch was exhibited.

Dr. Petrie made some remarks on the ornamentation of the brooch, and explained that it was chiefly interesting as being made of gold, and gave it as his opinion that it could not be earlier than the end of the eleventh or beginning of the twelfth century.